

## VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

		Date	<u>10-30-09</u>
Contract ID	<u>080725-401</u>	Job No.	<u>J4P1708</u>
County	<u>Cass</u>	Route	<u>71</u>
Contractor	<u>Ideker, Inc</u>	Original Bid Cost	<u>\$10,115,665.68</u>
Designed By	<u>Dan Tarr</u>	By	<u>Dan Tarr</u>
VECP #	<u>09-98</u>	Phone	<u>816 215-3228</u>
		VECP	<u>X or VECPPDU</u> <input type="checkbox"/>

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

As designed an 18" Group C pipe is to be installed in the Hwy 71 median under the North Cass Parkway Bridge to allow for drainage. We propose this pipe and end sections be eliminated. The water can be directed to an existing drain inlet just north of the bridge. This change will require additional embankment and site grading work to get adequate drainage to the north.

2. Estimate of reduction in construction costs.

\$12,752.74

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

Elimination of the pipe reduces future maintenance for MoDOT forces. Elimination of the pipe reduces any conflicts (current or future) with guard rail posts being driven through the pipe. Future replacement of the pipe becomes unnecessary.

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

11/15/09

(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

11/15/09

(date)

No effect on contract completion date

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

N/A

(date and/or dates)

Computation of cost savings =

[267 ft. Group C (15 in.) pipe + 2 each 18 in. safety slope end sections] - [Class A excavation] =  
[(267 ft.) (43.06 \$/ft.) + 2 ea. (901.86 \$/ea.)] - [(200 CY) (2.74 \$/CY)] = \$ 12,752.74

Note; there was an error in the plans and the 15 in pipe listed above should have been 18 in pipe. These numbers used above are those set up for this location (Sta. 269+70; Rte 71)

**\*\* Portion Below This Line To Be Filled Out by MoDOT \*\***

**Comments:**

We agree with the proposal and recommend it be approved. The drain inlet is located approximately 100 ft north of the proposed inlet of the new safety slope end section. We estimate the fill material would need to be approximately two to three feet high to achieve drainage back to the inlet. This is nearly the height of the planned fill for the pipe. We see no adverse safety or drainage issues associated with approval of this VE.

We currently have concrete traffic barriers along the inside shoulders of 71 hwy. We'd like to expedite this work so we can eventually remove the barriers. This will provide additional safety and assist in snow removal efforts.

Paul J. Russ

10-30-09

Submitted By Resident Engineer

Date

**Comments:**

I CONCUR WITH THE RECOMMENDATIONS  
OF THE R.E.

*Elizabeth A. Wight* (PW)

☒ Approval Recommended

☐ Rejection Recommended

District Engineer

11/2/09  
Date

**Comments:**

APPROVED PER DISTRICT RECOMMENDATION AT  
50/50 SPLIT.

☒ Approval

☐ Rejection

*David D. Coonan* by *gjs*

State Construction and Materials Engineer

1173-09

Date

**Distribution:**

Resident Engineer, Project Manager, District Operations Engineer, State Construction and Materials Engineer  
\*Value Engineering Administrator - \*MoDOT, P.O. Box 270, Jefferson City, MO 65102


Jeffrey J Hardy/D4/MODOT

10/30/2009 04:37 PM

To Paul J Russ/D4/MODOT@MODOT

cc Perry J Allen/D4/MODOT@MODOT

bcc

Subject Re: Request for approval of VE proposal 

Paul,

I am fine with this proposal since they believe they can get the drainage to work without this pipe.

Jeffrey J. Hardy, P.E.  
Project Manager  
MoDOT District 4  
600 NE Colbern Rd  
Lee's Summit, MO 64086

816-622-6570 Office  
816-622-0461 Fax  
Paul J Russ/D4/MODOT

Paul J Russ/D4/MODOT

10/30/2009 02:24 PM

To Perry J Allen/D4/MODOT@MODOT

cc Jeffrey J Hardy/D4/MODOT@MODOT

Subject Request for approval of VE proposal



I've attached Ideker's request for VE for your review and approval. I've also copied Jeff Hardy for his review. So it will still need to be reviewed by Dave Ahlvers and the VE Administrator.



VE median drainage.doc

I believe everything is self-explanatory.

We are eager to get this approved so we can work towards getting the concrete traffic barriers out of the 71 hwy. median.

Please let me know if you have any questions.

Thanks, Paul

Contract ID: 080725-401

Fed St/Pr Prj Nbr: FAF-71-4(103)

Status: Active

Primary PCN: J4P1708

District: 04

OrgCode: 4CJ

Funding

Progress Sched:

Variance Pct: .00

Desc: J4P1708 - ROUTE 71 - CASS COUNTY

- ☒ Federal  
☐ State/Province  
☐ Both

Time Charges: COMPLETION DATE

Bid Days: 771

Bid Amt: \$10,115,665.68

Contract Type: Construction Project Above \$500,000

☐ Fed Oversight

Work Type: NEW CONSTRUCTION

☐ Local Oversight

Proposal Fund Type:

Spec Yr: 1996

Unit System: English

Suppl Spec Bk Yr: 1998

Alt ID:

# VALUE ENGINEERING CHECK SHEET

## *TYPE OF WORK*

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☒ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☐ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc. \_\_\_\_\_

## *SUMMARY OF PROPOSAL*

(If needed, condense summary to a couple of lines)

\_\_\_\_\_ Modify grading to eliminate the need for a new drainage structure.

## *SCANNING OF DOCUMENT*

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

\_\_\_\_\_ Scan entire document.